ABSTRACT

The invention relates to a method for preparing a lithium and vanadium oxide and the thus obtained products. The method comprises preparing a precursor gel by reacting hydrogen peroxide with $V_2O_5-\alpha$ in an aqueous medium in the presence of a lithium precurosor and exposing the gel to a heat treatment in an oxidant atmosphere at a temperature ranging from 260°C to 580°C. A compound of a formula $Li_{1+\alpha}V_3O_8$, (0.1 < α < 0.25) comprises needle-shaped grains having a bimodal distibution, wherein the length (L) of the distribution needles ranges from 10 to 50 μm and the length (L) of the second distribution needles ranges from 10 to 10 μ m. . 15

10